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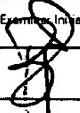
AL NO.  
09/462,656

APPLICANT  
Aboul-Hosn et al.

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14 January 2000

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### U.S. PATENT DOCUMENTS

Examiner Initial	DOCUMENT NUMBER	Date	Name	Class	Subclass	Filing Date (If Appropriate)
	Re 28,742	Mar 76	Rafferty et al.			
	2,669,668	Feb 54	Okulitch et al.			
	3,487,784	Jan 70	Rafferty et al.			
	3,608,088	Sep 71	Dorman et al.			
	3,626,947	Dec 71	Sparks			
	3,647,324	Mar 72	Rafferty et al.			
	3,771,527	Nov 73	Ruisi			
	3,864,055	Feb 75	Kletschka et al.			
	3,896,501	Jul 75	Bifano et al.			
	3,957,389	May 76	Rafferty et al.			
	3,970,408	Jul 76	Rafferty et al.			

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DOCUMENT NUMBER	DATE	COUNTRY	Class	Subclass	Translation Yes No
1 222 355	Jun 87	Canada			
1 240 802	Aug 88	Canada			
1 302 829	Jun 92	Canada			
1 308 319	Oct 92	Canada			
1 323 467	Oct 93	Canada			

### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	Takami, Yoshiyuki, et al., "Effect of Surface Roughness on Hemolysis in a Centrifugal Blood Pump", ASAIO Journal; vol. 42 pp. M858-N862.
	Takami, Yoshiyuki, et al., "Effect of Surface Roughness on Hemolysis in a Pivot Bearing Supported Gyro Centrifugal Pump (C1E3)", Artificial Organs; vol. 20, No. 11, pp. 1156-1161, 1996
	Takami, Yoshiyuki, et al., "Material of the Double Pivot Bearing System in the Gyro C1E3 Centrifugal Pump", Artificial Organs, vol. 21, No. 2, pp. 143-147, 1997.

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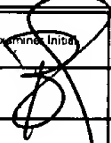
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Examiner Initials	DOCUMENT NUMBER	Date	Name	Class	Subclass	Filing Date (If Appropriate)
	3,995,617	Dec 76	Watkins et al.			
	4,086,665	May 78	Poirier			
	4,105,016	Aug 78	Donovan, Jr.			
	4,108,161	Aug 78	Samuels et al.			
	4,116,589	Sep 78	Rishton			
	4,118,806	Oct 78	Porier et al.			
	4,129,129	Dec 78	Amrine			
	4,135,253	Jan 79	Reich et al.			
	4,173,796	Nov 79	Jarvik			
	4,275,988	Jun 81	Kalasknikov et al.			
	4,382,199	May 83	Isaacson			

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	1 328 708	Apr 94	Canada			
	280 225	Aug 88	EPO			
	0157871 B1	Jul 90	EPO			
	0445782	Sep 91	EPO			
	0157859	Apr 92	EPO			

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	Takano, Hisateru, et al., "Ventricular Assist Systems: Experience in Japan with Toyobo Pump and Zeon Pump", Annals of Thoracic Surgery, 1996; 61:317-22.
	Tsukiya, Tomonori, "Use of Motor Current in Flow Rate Measurement for the Magnetically Suspended Centrifugal Blood Pump", Artificial Organs, vol. 21, No. 5, pp. 396-401, 1997.
	Allaire, P.E., et al., "Prototype Continuous Flow Ventricular Assist Device Supported on Magnetic Bearings", Artificial Organs, vol., No. 6, pp. 582-590, 1996.

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	4,403,983	Sep 83	Edelman et al.			
	4,451,252	May 84	Martin			
	4,507,048	Mar 85	Belenger et al.			
	4,512,726	Apr 85	Strimling			
	4,567,882	Feb 86	Heller			
	4,589,822	May 86	Clausen et al.			
	4,606,698	Aug 86	Clausen et al.			
	4,625,712	Dec 86	Wampler			
	4,648,865	Mar 87	Aigner			
	4,688,998	Aug 87	Olsen et al.			
	4,704,121	Nov 87	Moise			

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DOCUMENT NUMBER	DATE	COUNTRY	Class	Subclass	Translation Yes No
0396575	Mar 94	EPO			
0397668	Mar 94	EPO			
0611580	Aug 94	EPO			
0478635	Dec 94	EPO			
0629412	Dec 94	EPO			

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Anai, Hirofumi, et al., "Relationship Between Pump Speed Design and Hemolysis in an Axial Flow Blood Pump", Artificial Organs, vol. 20, No. 6, pp. 564-567, 1996.
Andrade, Aron, et al., "Characteristics of a Blood Pump Combining the Centrifugal and Axial Pumping Principles: The Spiral Pump", Artificial Organs, vol. 20, No. 6, pp. 605-612, 1996.
Burgreen, Greg W., et al., "A Design Improvement Strategy for Axial Blood Pumps Using Computational Fluid Dynamics", ASAIO Journal; 42:M354-M360, 1996.

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	4,705,501	Nov 87	Wigness et al.			
	4,753,221	Jun 88	Kensey et al.			
	4,769,031	Sep 88	McGough et al.			
	4,779,614	Oct 88	Moise			
	4,817,586	Apr 89	Wampler			
	4,844,707	Jul 89	Kletschka			
	4,846,152	Jul 89	Wampler et al.			
	4,895,557	Jan 90	Moise et al.			
	4,898,518	Feb 90	Hubbard et al.			
	4,906,229	Mar 90	Wampler			
	4,908,012	Mar 90	Moise et al.			

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0397720	Mar 95	EPO			
0659443	Jun 95	EPO			
0591208	Nov 95	EPO			
0699447	Mar 96	EPO			
0611580	Dec 96	EPO			

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	Kaufmann, Ralf, et al., "The Implantable Fuzzy Controlled Helmholtz-Left Ventricular Assist Device: First in Vitro Testing", Artificial Organs, Vol. 21, No. 2, pp. 131-137, 1997
	Kawahito, K., et al., "Ex Vivo Evaluation of the NASA/DeBakey Axial Flow Ventricular Assist Device", ASAIO Journal; 42:M754-M757, 1996.
	Khanwilker, Pratap, et al., "Using Hybrid Magnetic Bearings to Completely Suspend the Impeller of a Ventricular Assist Device", Artificial Organs, vol. 20, No. 6, pp. 597-604, 1996.

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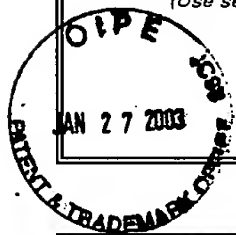
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	4,919,647	Apr 90	Nash			
	4,925,377	May 90	Inacio et al.			
	4,927,407	May 90	Dorman			
	4,944,722	Jul 90	Carriker et al.			
	4,950,259	Aug 90	Geary et al.			
	4,955,861	Sep 90	Energren et al.			
	4,957,504	Sep 90	Chardack			
	4,969,865	Nov 90	Hwang et al.			
	4,984,972	Jan 91	Clausen et al.			
	4,985,014	Jan 91	Orejola			
4,994,017	Feb 91	Yozu				

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	0 768 091	Apr 97	EPO			
	2233 293	Jan 73	Germany			
	24 53 296	May 76	Germany			
	286 145	Jan 71	Russian Federation			
	545 358	Jul 77	Russian Federation			

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	McCarthy, Patrick M., et al., "Permanent Mechanical Circulatory Support With an Implantable Left Ventricular Assist Device", Annals of Thoracic Surgery; 63:1458-61, 1997.
	Nishimura, Kazunobu, et al., "Development of a Magnetically Suspended Centrifugal Pump as a Cardiac Assist Device for Long-Term Application", ASAIO Journal pp. 68-71, 1996.
	Kubo, Hironao, "Marine Propellers: The Latest Topics", Artificial Organs, vol. 21, No. 2, pp. 109-113, 1996.

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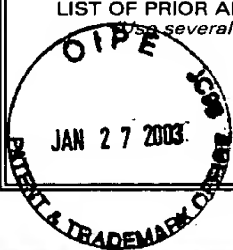
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	4,994,078	Feb 91	Jarvik			
	4,995,857	Feb 91	Arnold			
	5,009,636	Apr 91	Wortley et al.			
	5,011,380	Apr 91	Kovacs			
	5,019,102	May 91	Hoene			
	5,044,369	Sep 91	Sahota			
	5,044,897	Sep 91	Dorman			
	5,049,134	Sep 91	Golding et al.			
	5,053,004	Oct 91	Markel et al.			
	5,055,005	Oct 91	Kletschka			
	5,061,256	Oct 91	Wampler			

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DOCUMENT NUMBER	DATE	COUNTRY	Class	Subclass	Translation Yes No
WO 85/01432	Apr 85	WIPO			
WO 85/01436	Apr 95	WIPO			
WO 88/07842	Oct 88	WIPO			
WO 89/04644	Jun 89	WIPO			
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	Nakazawa, Tadashi, et al., "The Development of Pivot Bearing Supported Sealless Centrifugal Pump for Ventricular Assist", Artificial Organs, vol. 20, No. 6, pp. 485-490, 1996
	Nakazawa, Tadashi, et al., "The Effect of the Impeller-Drive Magnetic Coupling Distance on Homolysis in a Compact Centrifugal Pump", Artificial Organs, vol. 20, No. 3, pp. 252-257, 1996.
	Rosenfeldt, Franklin L., et al., "A Novel Valveless Rotary Pump for Cardiac Assist", Artificial Organs, vol. 21, No. 5, pp. 420-425, 1997.

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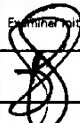
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	5,078,741	Jan 92	Bramm et al.			
	5,079,467	Jan 92	Dorman			
	5,092,844	Mar 92	Schwartz et al.			
	5,092,879	Mar 92	Jarvik			
	5,098,256	Mar 92	Smith			
	5,112,200	May 92	Isaacson et al.			
	5,112,202	May 92	Oshima et al.			
	5,112,292	May 92	Hwang et al.			
	5,118,264	Jun 92	Smith			
	5,145,333	Sep 92	Smith			
	5,147,187	Sep 92	Ito et al.			

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DOCUMENT NUMBER	DATE	COUNTRY	Class	Subclass	Translation Yes No
WO 89/05668	Jun 89	WIPO			
WO 89/07427	Aug 89	WIPO			
WO 90/15640	Dec 90	WIPO			
WO 91/01584	Feb 91	WIPO			
WO 92/02263	Feb 92	WIPO			

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8	5,147,388	Sep 92	Yamazaki			
	5,167,223	Dec 92	Koros et al.			
	5,167,623	Dec 92	Cianci et al.			
	5,174,726	Dec 92	Findlay			
	5,195,877	Mar 93	Kletschka			
	5,205,721	Apr 93	Isaacson			
	5,209,650	May 93	Lernieux			
	5,234,456	Aug 93	Silverstrini			
	5,275,580	Jan 94	Yamazaki			
	5,282,849	Feb 94	Kolff et al.			
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	WO 92/03181	Mar 92	WIPO			
	WO 92/06297	Apr 92	WIPO			
	WO 93/07388	Apr 93	WIPO			
	WO 93/20860	Oct 93	WIPO			
	WO 94/06486	Mar 94	WIPO			

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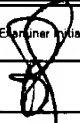
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	5,326,344	Jul 94	Bramm et al.			
	5,344,443	Sep 94	Palma et al.			
	5,360,317	Nov 94	Clausen et al.			
	5,368,438	Nov 94	Raible			
	5,370,509	Dec 94	Golding et al.			
	5,370,610	Dec 94	Reynolds			
	5,376,114	Dec 94	Jarvik			
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	5,385,581	Jan 95	Bramm et al.			

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WO 94/09835	May 94	WIPO			
WO 94/13955	Jun 94	WIPO			
WO 95/00185	Jan 95	WIPO			
WO 95/28185	Oct 95	WIPO			

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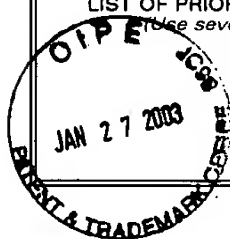
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<i>[Signature]</i>	5,393,207	Feb 95	Maher et al.			
	5,399,074	Mar 95	Nose et al.			
	5,399,145	Mar 95	Ito et al.			
	5,441,535	Aug 95	Takahashi et al.			
	5,443,503	Aug 95	Yamane			
	5,456,667	Oct 95	Ham et al.			
	5,470,208	Nov 95	Ketschka			
	5,478,309	Dec 95	Sweezer et al.			
	5,480,380	Jan 96	Martin			
	5,503,615	Apr 96	Goldstein			
	5,507,629	Apr 96	Jarvik			

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WO 96/18358	Jun 96	WIPO			
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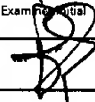
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	5,527,159	Jun 96	Bozeman, Jr. et al.			
	5,531,789	Jul 96	Yamazaki et al.			
	5,558,634	Sep 96	Mitchell			
	5,575,630	Nov 96	Nakazawa et al.			
	5,588,812	Dec 96	Taylor et al.			
	5,613,935	Mar 97	Jarvik			
	5,647,358	Jul 97	Vilasi			
	5,695,471	Dec 97	Wampler			
	5,707,218	Jan 98	Maher et al.			
	5,727,569	Mar 98	Benetti et al.			
	5,765,568	Jun 98	Sweezer Jr. et al.			

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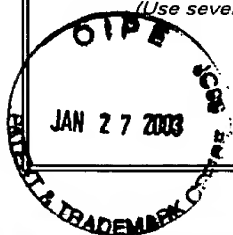
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<i>JS</i>	5,766,209	Jun 98	Devonec			
	5,782,797	Jul 98	Schwich, Jr. et al.			
	5,800,375	Sep 98	Sweezer et al.			
<i>JS</i>	5,810,757	Sep 98	Sweezer, Jr. et al.			
	5,976,103	Nov 99	Martin			

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	5,100,383	Mar 92	Lichtenstein			
	5,112,349	May 92	Summers et al.			
	5,718,678	Feb 98	Fleming III			
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### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER 	DATE CONSIDERED 3/4/03
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this of with next communication to applicant.